

Title (en)
SELF-PROPELLED CARRIAGE USING SPHERICAL DRIVE MODULE

Title (de)
SELBSTANGETRIEBENER WAGEN MIT VERWENDUNG VON SPHÄRISCHEM ANTRIEBSMODUL

Title (fr)
CHARIOT AUTOMOTEUR SE SERVANT D'UN MODULE D'ENTRAÎNEMENT À ROTULE

Publication
EP 3081452 B1 20210127 (EN)

Application
EP 14869883 A 20141210

Priority
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• JP 2014082711 W 20141210

Abstract (en)
[origin: EP3081452A1] A self-propelled carriage 10a having spherical-body-driven modules 10 attached to a bottom of a carriage frame 11 through suspension mechanisms 12, the spherical-body-driven modules 10 each having a spherical body 14, a first drive wheel 15 and a second drive wheel 16 in contact with the spherical body 14 respectively from an X-axis direction and a Y-axis direction, a first uncontrolled-ball bearing mechanism 17 and a second uncontrolled-ball bearing mechanism 18 respectively on a side opposite to the first drive wheel 15 and on a side opposite to the second drive wheel 16 and respectively receiving reaction force from the first drive wheel 15 and reaction force from the second drive wheel 16, a third uncontrolled-ball bearing mechanism 19 at an upper position of the spherical body 14 and receiving a load applied on the spherical body 14, and a base 20 supporting these aforementioned components.

IPC 8 full level
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